

Surface Measurements of Aerosol Chemical and Optical Properties for Aerosol IOP 2003

	Measurement	Instrument	PI/team	Location
1	Total particle number ($>0.01 \mu\text{m}$)	TSI 3010 CPC	Ogren/CMDL	AT
2	Aerosol size distribution (0.1–10 μm)	PCASP	Ogren/CMDL	AT
3	Aerosol absorption (565 nm)	PSAP	Ogren/CMDL	AT
4	Aerosol absorption (450, 550, 700 nm)	Modified Aethalometer	Ogren/CMDL	AT
5	Aerosol scattering and hemispheric backward scattering (450, 550, 700 nm, $D_p < 1 \mu\text{m}$ and $D_p < 10 \mu\text{m}$, All at both low and varying RH)	TSI 3563 integrating nephelometers, scanning humidograph system	Ogren/CMDL	AT
6	Ozone concentration	Dasibi ozone monitor	Ogren/CMDL	AT
7	Aerosol major ion chemistry	Aerosol filters, IC	Quinn/PMEL	AT
8	Aerosol absorption (532 nm)	Photoacoustic	Arnott/DRI	TBD
9	Aerosol extinction (466, 530, 660 nm)	Optical extinction cell	Covert/UW	TBD
10	Aerosol absorption (466, 530, 660 nm)	Modified PSAP	Covert/UW	TBD
11	TC/OC/EC	Aerosol filters	Kirchstetter/LBL	TBD
12	CCN	CCN spectrometer	Hudson/DRI	TBD
13	Aerosol chemistry	PILS sampler-Ion Chromatog.	Lee/BNL	TBD
14	Total organic carbon	PILS sampler-UV oxidation	Lee/BNL	TBD
15	Aerosol mass	TEOM	Lee/BNL	TBD
16	Refractive index, hygroscopicity	TDMA, OPC	Wang/BNL	TBD
17	??Individual particle chemistry, sizing	Aerodyne AMS	Worsnop/Aerodyne	TBD
18	Size-segregated aerosol composition	Drum sampler, PIXE	Cahill/UCD	TBD

AT Aerosol Trailer

TBD To be determined